4735

Diag. Cht. No. 6002-2

DELARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
, Director
6. & 6. SURVEY L. & A. VAY 3 1 1928 State: Washington Acc. No.
DESCRIPTIVE REPORT Topographic Hydrographic Sheet No. 4735
LOCALITY
Grays Harbor ~ Offshore
Grays Harbor to Destruction 1.
192 7
CHIEF OF PARTY
T.J.Maher

DESCRIPTIVE REPORT to accompany

TOPOGRAPHIC TRAVERSE SHEET

DESTRUCTION ISLAND

Registered as Bout Sheet For 4735

Steamer GUIDE 1927

Thos. J. Maher Chief of Party

DESCRIPTIVE REPORT to accompany TOPOGRAPHIC TRAVERSE SHEET OF DESTRUCTION ISLAND

AUTHORITY: Director's orders dated March 5, 1927.

PURPOSE: To establish control for the location of the Destruction Island Hydrophone.

SURVEY METHOD: An ordinary plane table traverse was made in the execution of this survey. The position of the Destruction Island Light-House was assumed and the table set up close to this position. Cuts were taken to all prominent objects and a traverse was run out to the tree on the east end of the island, the prominent objects between these two points being located by intersections and roding.

At each set up a cut was taken on this tree and the final measured distance checked very closely with the intersection of these cuts.

The table was then set up on the light house tower, oriented on the line Destruction Island Light House to the tree on east end and the position of objects determined from the traverse checked by intersections. A direction was also taken to South Rock. Due to inclement weather, it was impossible to obtain cirections to any other triangulation point along the shore.

HYDROPHONE LOCATION: A number of sextant angles were taken at the time the hydrophone was set and these were used to plot it's position on the topography sheet. A vertical angle and a bearing to the light house were taken at the same time. The computed distance and azimuth to the light house checked the position as determined by sextant fixes.

GEOGRAPHIC POSITION OF HYDROPHONE: The azimuth from Destruction Island Light House to South Rock being known, the true meridian through the position of the light house was laid off. The meridian and parallel shown on the sheet were then located from the geographic position of the light house. The D. M. and D. P. of the hydrophone location were then scaled from the sheet.

Respectfully submitted,

Francis L. Gallen,

H & G E, C & G Survey.

Forwarded, approved:

Thos. J. Maher, Chief of Party. Copy for Record Section.files.

Division of Hydrography and Topography;

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET

Locality: COAST OF WASHINGTON

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks"
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief. Division of Tides and Currents.



Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes 12, 13 & 14.

HYDROGRAPHIC SHEET

1755

Locality: COAST OF WARRINGTON

Chief of Party:
Plane of reference is
ft. on tide staff at

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

glande

Chief. Division of Tides and Currents.

Section of Field Records.

Befort on Hydrographic Sheet No. 4735.

Surveyed in 1929.

Chief of Party, Thos J. Maher.

Surveyed by, Ships Officer

Positions Notted by, E. H. Bernetein.

Soundings Plotted by, H. C. Warwick Verified School by, J. C. MacNat.

1) The records conform to the requirements of the general instructions except that no descriptive report was submitted for this sheet.

2. The plan and character of development fulfill the requirements of the Deneral Instruction except that the easterly part of the work overlaps the adjacent sheets more than is ordinarily the practice.

3/The plan and extent of the development satisfy the Specific Instructions.

4. The sounding line crossings are adequate although several crossines or facts of lines on which the crossings were foor were rejected because of uncertain control or lack of control.

5.) The usual depth curves were drawn

6.) The field plotting was completed to the extent prescribed by the Deneral Instruction except in as much as a few inconsistant soundings and crossings, requiring a large amount of time in the office to solve, might have been investigated and solved more expediently by the field party.

To so over any part of the strafting some by the field party however owing to the character of the work-the apparent uneven bottom-all of the R.A.R. positions were checked.

(a) The junction with H. 4633a shows number of soundings between Long 125 45 and 125° 50 which and Lat 47° 00 which differ log as much as 10 fathours. It was noticed that the vertical cast soundings on H 46330 agree much better than the Icho soundings and it is therefore assumed that this difference is star to the method of obtaining the soundings. In compiling the chart, the lowest soundings should be selected in accordance with the usual fractice. (b) The junction with #46336 is good, part of the overlap is shown on H. 4735 and part on H 4633b. () The junction with H. 4729 shows very good agreement throughout. (d) It was decided that the few

very good agreement throughout.

(d) It was decided that the few sounding lines running across # 4729 to # 4728 should be smitted on # 4728 as the area is sufficiently covered on

H4728 and better controlled. (1) H4775 joins this sheet H4735 on the west and is simply a continuation of this sheet, no overlap was therefore necessary. 9.1 No further surveying is required to fully slevelof the area within the limits of this sheet (See para 10 following). 10. Remarks (a) 22 "fathows reported" It is implobable that the "22" fathous "reported" sounding shown in Lat. 47 26, Long 124° 54 30" on Chart 6002 lists in this locality. The soundings at the mother edge of this sheet are wregular and may indicate some shoaling to the northward of the limits of this sheet. It might be advisable to investigate this area to entirely disprove the 22 fathora sounding.

(b) Slope corrections were disregarded because the slope was in most cases deduced from soundings on adjoining lines. There is enough uncertainty in the positions of these lines to lead to impossible results and impropable conditions.

Then there are comparatively steep.

Then there are comparatively steep slopes over a small area, as along the ladge of an extensive bank, it would appear advisable to develop this slope by vertical easts, at least to determine the degree of slope by this method.

11. Rating of the work.

(a) Character and scope fourveying - good!

(b) Field drafting - good!

12. Reviewed by, John C. Mac Nat.

May 13th, 1929.

Approved A.M. Sobieralskie Chief section of Field Records

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY L. & A FEB 24 1928 Acc. No.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No.7

		1721	
REGISTER	NO.	4735	3

'State Washington	
General locality Coast of Washington	on Grays Harbor
. Locality Grays Harbor to Destruction	July 20.
-Scalel:80,000 -Date of survey	October 27 ,19:
Vessel U.S.C.& G.S.S. GUIDE	·
-Chief of Party Thos. J. Maher	
Surveyed by Ships Officer ons Plotted XPROXXXXXX by E. H. Bernstein	
Soundings penciled by H. C. Warwic	
Soundings in fathoms XXXXX	
Plane of reference M.L.L.W.	
Subdivision of wire dragged areas by	y
Inked by	•
Verified by	·····
Instructions dated March 5, 1927.	3/1000000,19
Remarks: Workmincluded in 14 volume: 1 cahier of tidal data. The depth	g. I cahier of tube rec
on this sheet. Also included with to 1 Vol. Hydrophone location angles,	this sheet are 4 Vols.
Location of Destruction Island Hydr	r o phone.

HYDROGRAPHIC SHEET No. 4735

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet 2.45.

Number of positions checked All.

Number of positions revised 2.75.

Number of soundings recorded 6.9.00.

Number of soundings revised

Number of signals erroneously

plotted or transferred Marke.